execute a first one-dimensional inverse discrete cosine transforming function, where the first function executes in a first direction on a first matrix of coefficients, producing a matrix of intermediate results; and

execute a second one-dimensional inverse discrete cosine transforming function, where the second function executes in a second, different direction on the matrix of intermediate results concurrent with the first function executing in the second direction on a second matrix of coefficients,

in which the functions switch periodically and concurrently between the first and second directions.

A2

27. (Amended) A method of implementing a two-dimensional inverse discrete cosine transform, comprising:

executing two one-dimensional inverse discrete cosine transforming functions to operate on a sequence of matrices, some matrices being operated on first in row order, then in column order and some matrices being operated on first in column order, then in row order; and

enabling the functions to each operate on matrices in row order and in column order.

A3

In the drawings:

Please substitute the enclosed informal Figures 1-6 for the Figures 1-6 previously filed.